

FIGURE 1

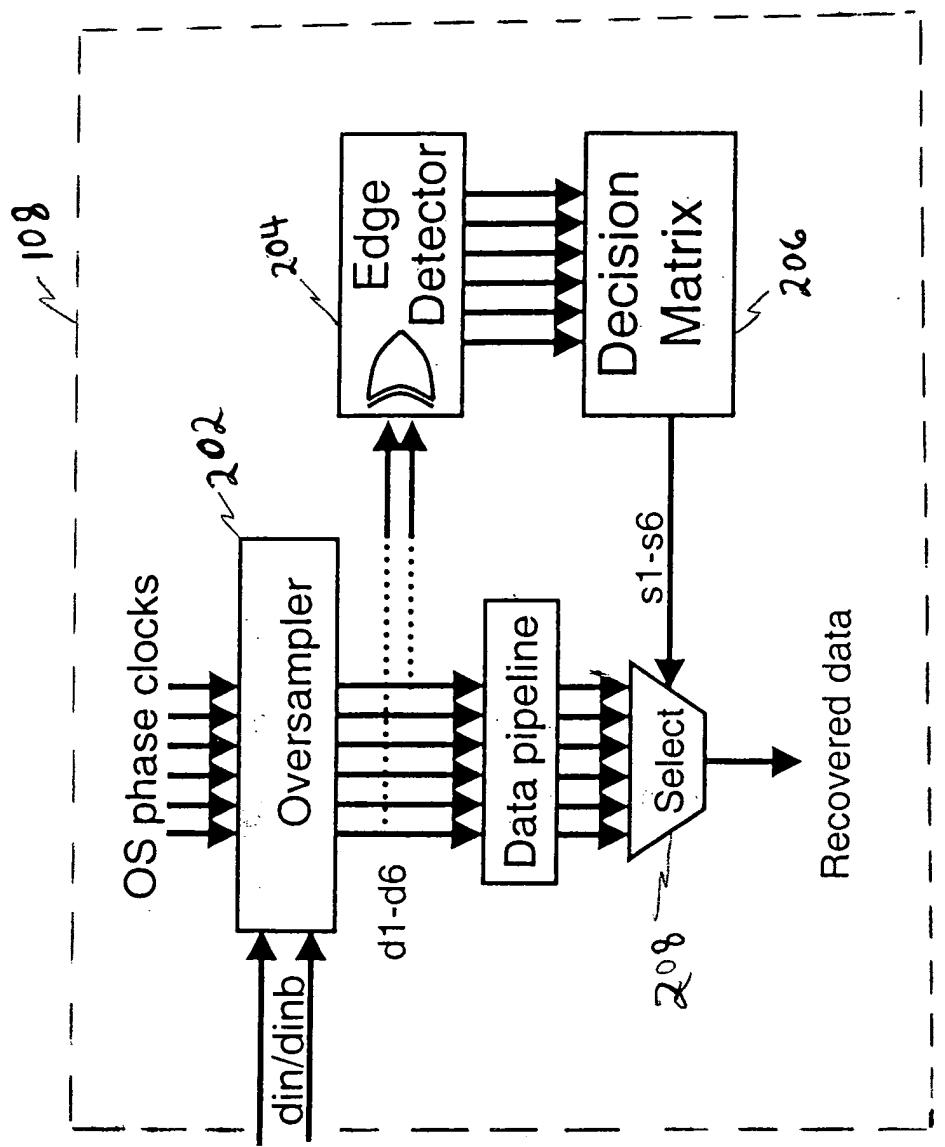


FIGURE 2

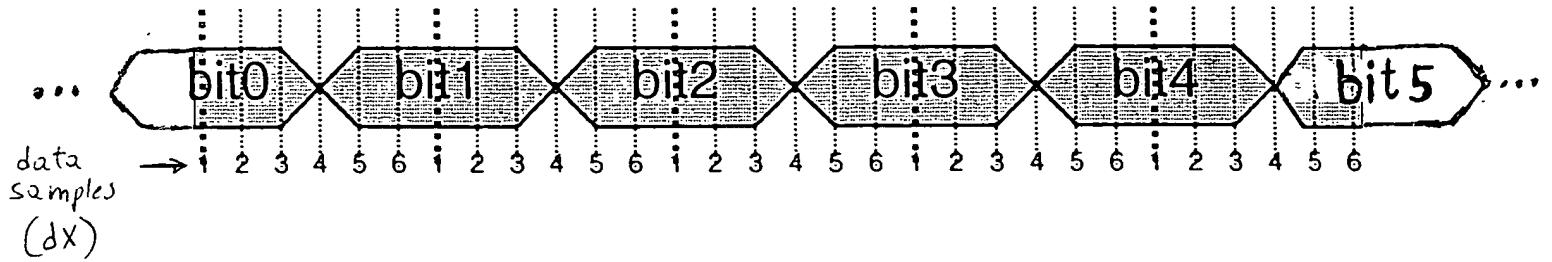


FIGURE 3

TWO-CYCLE DECISION MATRIX

IDEAL CURRENT STATE		Previous cycle						Current cycle					
		d1 $\oplus d_2$	d2 $\oplus d_3$	d3 $\oplus d_4$	d4 $\oplus d_5$	d5 $\oplus d_6$	d6 $\oplus d_1$	d1 $\oplus d_2$	d2 $\oplus d_3$	d3 $\oplus d_4$	d4 $\oplus d_5$	d5 $\oplus d_6$	d6 $\oplus d_1$
S4	s4	s5	s5	s5/3	s3	s3	s4						
S5		s5	s6	s6	s6/4	s4	s4	s5					
S6			s6	s1	s1	s1/5	s5	s5	s6				
S1				s1	s2	s2	s2/6	s6	s6	s1			
S2					s2	s3	s3	s3/1	s1	s1	s2		
S3						s3	s4	s4	s4/2	s2	s2	s3	

FIGURE 5

SINGLE-CYCLE
DECISION MATRIX

CURRENT CYCLE							
IDEAL CURRENT STATE		d1 ⊕d2	d2 ⊕d3	d3 ⊕d4	d4 ⊕d5	d5 ⊕d6	d6 ⊕d1
S4	s4	s5	s5	s3	s3	s3	s3
S5	s4	s5	s6	s6	s4	s4	s4
S6	s5	s5	s6	s1	s1	s5	s5
S1	s6	s6	s6	s1	s2	s2	s2
S2	s3	s1	s1	s1	s2	s2	s3
S3	s4	s4	s2	s2	s2	s2	s3

FIGURE 4

Edge Detection	Next State Selected
No edge detected.	No state change. Next state = Previous State
Only one edge detected.	Next state is determined by this edge
Multiple edges detected and they all generate the same next state.	The next state is the state generated by the edges.
Multiple edges detected and the next states generated are different.	No state change. Next state = Previous State

FIGURE 6

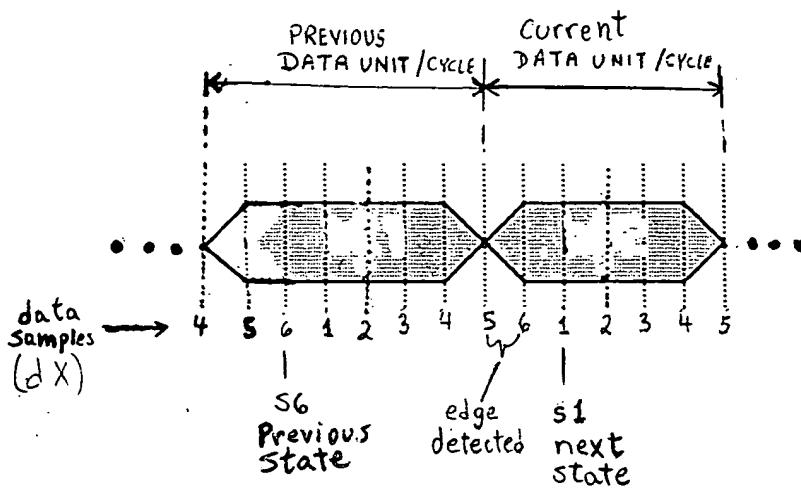


FIGURE 7

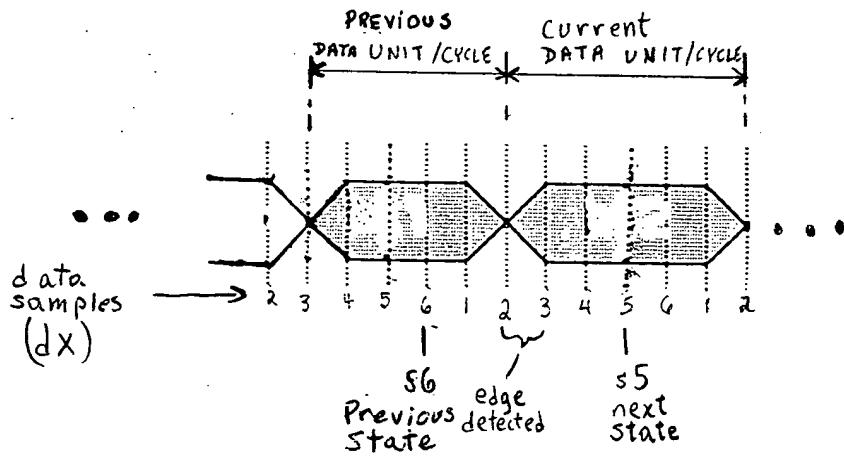


FIGURE 8

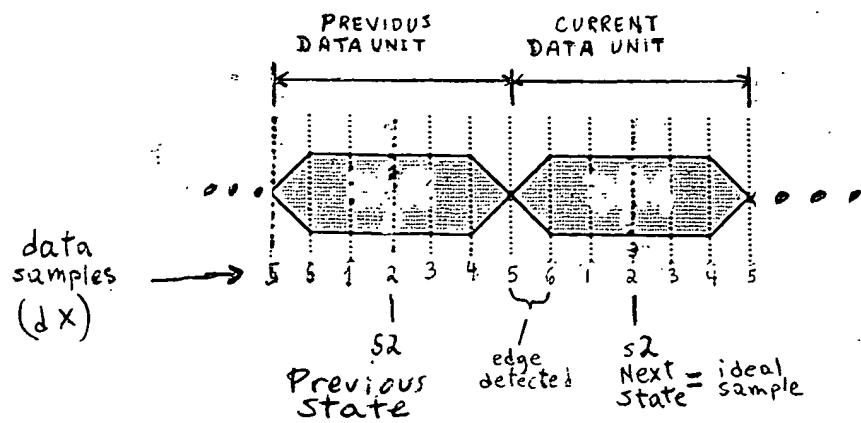


FIGURE 9

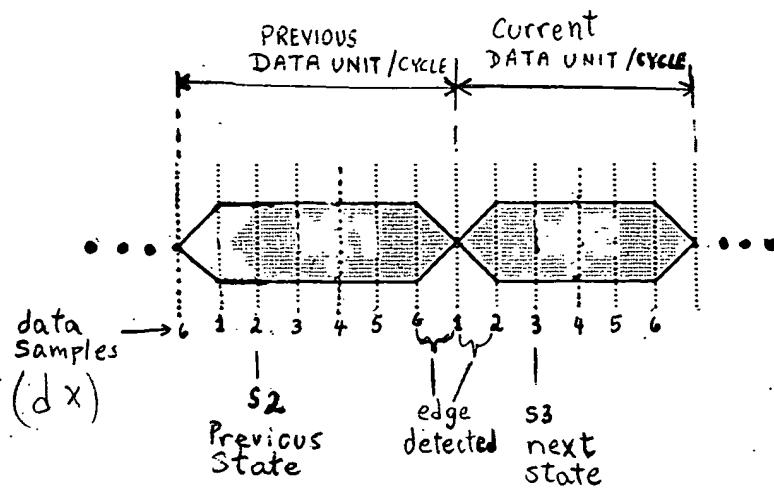


FIGURE 10

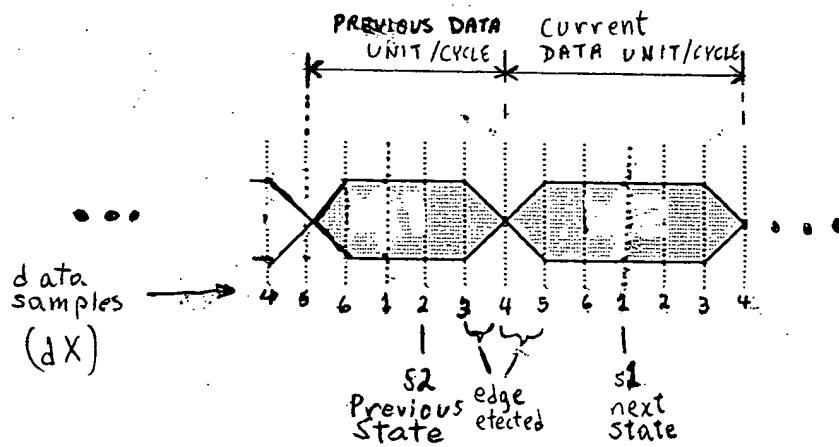


FIGURE 11

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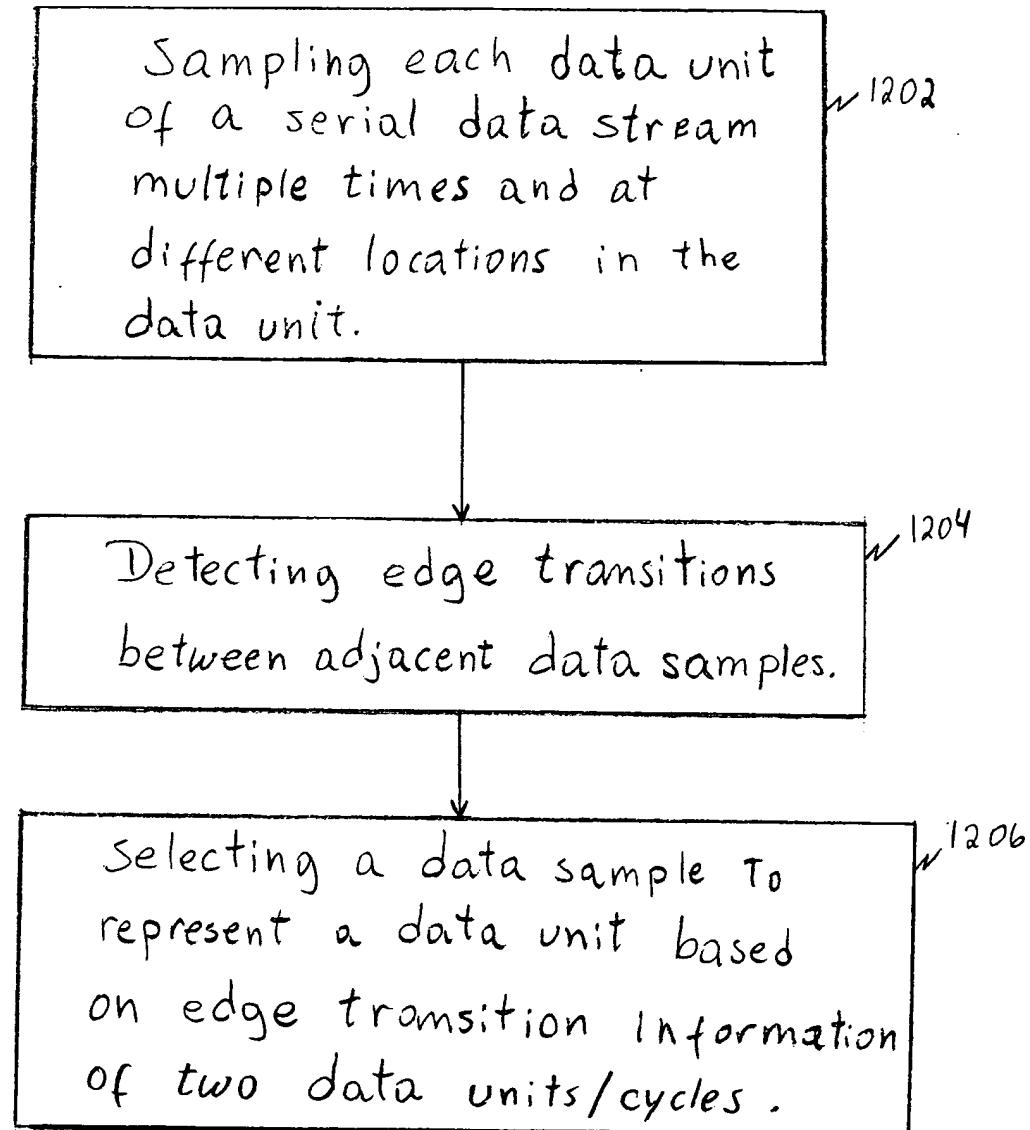


FIGURE 12